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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/819,831	03/28/2001	Daniel Seligson	INTL-0429-US (P9135)	1550

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EXAMINER

ZAMANI, ALI A

ART UNIT	PAPER NUMBER
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2674

DATE MAILED: 04/09/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/819,831

Applicant(s)

DANIEL SELIGSON

Examiner

Ali A. Zamani

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 January 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims 1-4, 6-24

- 4) ☒ Claim(s) 1-4, 6-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 6-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4 and 6-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Murade (US Pat. No. 6,528,822 B2) in view of Matties (US Pat. No. 6,498,592 B1).

In regard to claims 1, 12 and 18, Murade teach a display comprising: a plurality of substrates (see Fig. 5), each substrate having a recess (12); a plurality of display elements formed on each substrate; an integrated circuit block mounted in the recess (12) on each substrate and coupled to at least one of said display elements; and an integrator to couple said substrates to form a tiled display (see Figs 1A and 14). Murade substantially teaches the above claimed limitations except for teaching an "optical integrator". However, Matthies teaches a tiled display structure using organic light emitting materials comprising a back plane; a front plane and a back plane (see Fig. 7) and display structure is formed in two parts: a display section and an electronics section and these two parts are made separately and then joined to form a complete tile (see col. 5, lines 4-24). Matthies further teaches the display section consists of a transparent glass layer and the active medium; an OLED (or LEDs) material is deposited onto this layer in a pattern of individual pixels (see col. 5, lines 15-20). Matthies further teaches the structure a tiled display,

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which may be assembled directly on the back surface of the optical integrating structure (2020) (see Fig. 13, col. 20, lines 19-27). Thus, it would have been obvious to one of ordinary skill in the art to utilize the structure of organic light emitting materials and optical integration structure of Matthies in the display of Murade to provide a method for fabricating the same, and to an electronic apparatus using the electro-optical device as a display unit.

In regard to claims 2-3 and 13-14, Murade teaches a method for fabricating for surface of an electro-optical device as a display unit by using an organic film (col. 2, lines 5-10) and Matthies teaches display tile structure by using OLEED and LED elements (see col. 5, lines 25-28).

In regard to claims 4, 6, 7-11, Murade teaches the structure of forming the elements on each substrate (see Figs 5 and 14).

In regard to claims 15-17, Murade teaches each block (100a) is formed of a metal oxide semiconductor integrated circuit (see Fig. 5, col. 14, lines 20-26) and block is deposited in a recess (12) (see Fig 14) which is formed in front plane (see Fig. 5).

In regard to claims 19-22, Matthies teaches the method of etching a recess in a module display (1000 to receive integrated circuit nanoblock (see Figs 1-12).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Zamani whose telephone number is (703) 308-6414. The examiner can normally be reached on Monday through Friday from 8:00 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe, can be reached on (703) 305-4709.

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Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, DC 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,
Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding
should be directed to the Technology Center 2600 Customer Service Office whose telephone
number is (703) 306-0377.

Ali Zamani

March 20, 2003



RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600